App #:   10-708515

EAST SEARCH HISTORY

Databases: US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB

Ref#	Hits	Search Text
S1	1	10/708515
S2	3	circuit and photomask and (bisector or "bi-sector") and voronoi
S3	20	circuit and (bisector or "bi-sector") and voronoi
S4	4	circuit and photomask and voronoi
S5	273	circuit and voronoi
S6	172	circuit and voronoi and segment$6
S7	53	S6 and @pd<"20030309"
S8	1200	(382/187).CCLS.
S10	72	sub-resolution assist feature
S11	62	S10 and circuit
S9	2	S8 and voronoi
S12	144	("sub-resolution assist feature" or SRAF) and circuit
S13	3	S12 and voronoi
S15	18	("5229255" | "5242770" | "5256505" | "5288569" | "5324600" | "5362584" | "5424154" | "5436095" | "5447810" | "5538815" | "5663893" | "5698347" | "5707765" | "5723233" | "5821014" | "5827623" | "6114071" | "6114095").PN.
S16	0	S15 and sraf
S17	7	(US-20040068712-$ or US-20020001758-$).did. or (US-5491641-$ or US-5880970-$ or US-6178539-$ or US-6317859-$ or US-6335130-$).did.
S18	1	S17 and sraf
S22	4	("5773315" | "5777901" | "6044208" | "6066179").PN.
S14	14	S12 and @pd<"20030309"
S19	3	S17 and (sraf or "sub-resolution assist")
S20	8	S12 and @pd<"20040309" not S14
S21	4	S6 and @pd<"20040309" not S7
S24	58	photomask and (sraf or "sub-resolution assist feature")
S23	2	("7200835").PN.
S30	171	circuit and photomask and ((scatter$3 or intensity or assist) adj2 bars)
S36	1	("6178539").PN.
S43	57	(((scatter$3 or intensity or assist) adj2 bars) same remov$3)
S46	34	circuit and (((scatter$3 or intensity or assist) adj2 bars) same contact$3)
S28	1	circuit and photomask and (scatter$3 adj bars) and voronoi
S25	9	(US-20040068712-$ or US-20020001758-$ or US-20040005089-$).did. or (US-6317859-$ or US-6178539-$ or US-5491641-$ or US-5880970-$ or US-6541167-$ or US-6335130-$).did.
S35	41	circuit and ((scatter$3 or intensity or assist) adj2 bars) and (vertices or vertex)
S31	60	S30 and @pd<"20040309"
S34	94	S33 and @pd<"20040309"
S29	1	circuit and photomask and ((scatter$3 or intensity or assist) adj2 bars) and voronoi
S27	1	S26 and voronoi
S50	76	circuit and ((SRAF or "assist features") same (extend$3 or connect$3 or lengthen or widen or broaden or enlarge))
S26	5	S25 and photomask and circuit and ("assist feature" or sraf)
S33	225	circuit and ((scatter$3 or intensity or assist) adj2 bars) and (vertic$2 or vertex)

S45	5	circuit and (((scatter$3 or intensity or assist) adj2 bars) same expand$3)
S48	66342	(GORDON adj RONALD) or (LVOV adj ALEXEY) or (MANSFIELD adj SCOTT) or (MUKERJEE adj MAHARAJ) or (PAPADOPOULOU adj EVANTHIA) or ("INTERNATIONAL BUSINESS MACHINES CORPORATION" or IBM).asnm.
S44	2	("6838212").PN.
S47	6	circuit and (((scatter$3 or intensity or assist) adj2 bars) same (lengthen or widen or broaden or enlarge))
S41	4	circuit and (((scatter$3 or intensity or assist) adj2 bars) same connect)
S49	7	S48 and (photomask and circuit and (((scatter$3 or intensity or assist) adj2 bars) or SRAF or "assist features")).clm.
S42	104	(((scatter$3 or intensity or assist) adj2 bars) same connect$3)
S32	2	("6114071").PN.
S40	3	circuit and (((scatter$3 or intensity or assist) adj2 bars) same extend$3 same connect)
S38	37	circuit and (((scatter$3 or intensity or assist) adj2 bars) same extend$3)
S39	10	("5663893" | "5682323" | "5705301" | "5707765" | "5821014" | "6139994" | "6175953" | "6210841" | "6413683" | "6453457").PN.
S37	4	("5773315" | "5777901" | "6044208" | "6066179").PN.
S52	18	("5663893" or "5821014" or "6413683" or "6425117" or "6523162" or "6602728" or "20020045106" or "20020192575" or "20030061592").pn.
S53	22	S51 or S52
S51	4	10/338575 or "10/378579"

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GOOGLE SCHOLAR SEARCH

sraf -patent circuit
"sub-resolution assist feature" -patent
"sub-resolution assist feature" -patent circuit
"sub-resolution assist feature" circuit
"sub-resolution assist feature" -patent
"sub-resolution assist feature"
sraf -patent circuit voronoi
sraf -patent voronoi
voronoi -patent circuit
voronoi -patent circuit photomask